ANSWERS

Magnificent Park Water System Profile Information



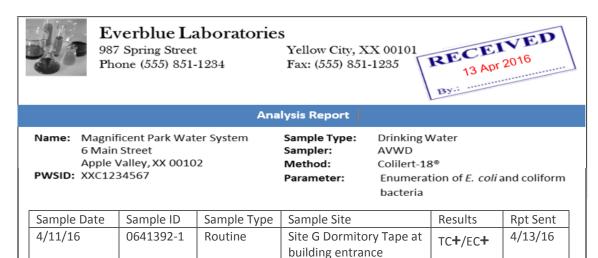
Situation A: Magnificent Park Water System Repeat Monitoring

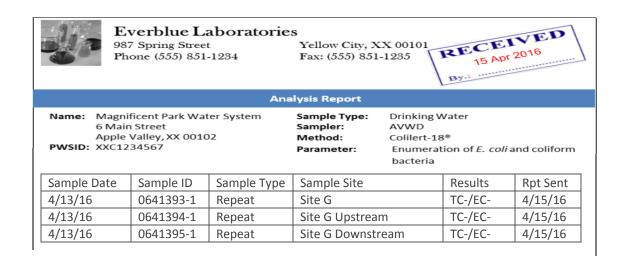
Magnificent Water System Characteristics

- TWS
- Uses one ground water well
- Operates year round
- Serves 156 persons

- Disinfects (<4log)
- Routine monitoring frequency is monthly
- System is required to collect 1 sample per month
- State does Not allow dual GWR-RTCR sample

Magnificent Water System received the following lab reports after collection of total coliform samples taken in compliance with its approved sample siting plan under the RTCR.





1. The PWS must notify the State about the EC+ result by the end of the day on 4/13/2016?



No (circle your answer)

Email LDHH at **Safe.water@la.gov** and include PWS ID and PWS Name and date of EC+ result.

[number] routine sample(s) in **_____________________**[month].

5. Was there an *E. coli* MCL violation ? _____Yes _____No

4. The PWS must take

Although the routine sample was EC+, all repeat samples were collected and were TCtherefore the PWS does NOT have an E. coli MCL violation.

6. Was an assessment triggered? _____Yes _____No

a. What level of assessment was triggered? Level 1 Level 2

There is no assessment required because all repeat samples were collected and all repeat samples were TC-

Situation B: Magnificent Park Water System

Magnificent Park takes total coliform samples in May 2016 and received the following lab reports:



Everblue Laboratories

987 Spring Street Phone (555) 851-1234 Yellow City, XX 00101 Fax: (555) 851-1235



Analysis Report

Name: Magnificent Park Water System

6 Main Street

Apple Valley, XX 00102

PWSID: XXC1234567

Sample Type: **Drinking Water**

Sampler: AVWD Method: Colilert-18®

Parameter: Enumeration of E. coli and coliform

bacteria

Sample Date	Sample ID	Sample Type	Sample Site	Results	Rpt Sent
05/09/16	0641396-1	Routine	Site G	TC + /EC-	5/11/16



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Analysis Report

Name: Magnificent Park Water System

6 Main Street

Apple Valley, XX 00102

PWSID: XXC1234567

Sample Type: **Drinking Water**

AVWD Sampler: Method: Colilert-18®

Parameter: Enumeration of E. coli and coliform

bacteria

Sample Date	Sample ID	Sample Type	Sample Site	Results	Rpt Sent
05/11/16	0641399-1	Repeat	Site G	TC-/EC-	5/13/16
05/11/16	0641400-1	Repeat	Site G Upstream	TC-/EC-	5/13/16
05/11/16	0641401-1	Repeat	Site G Downstream	TC + /EC-	5/13/16

- 2. Based on the RTCR results, what level of assessment was triggered?



Level 2

Level 1 because it had more than one TC+ sample results in May 2016. It did not have an *E. coli* MCL violation (level 2) because all repeat samples were collected and all repeat samples were EC-.

- The PWS must complete the assessment and submit a completed assessment form to the state by 6/13/16 [month/day/year].
- 4. Who can do the assessment?

A Level 1 assessment can be completed by an operator or a group of operators who hold, in total, certifications in production, treatment, and distribution at the appropriate level for the population served. Magnificent Park's population of fewer than 1,000 persons, would require a Level 1 license with Production, Treatment, and Distribution certifications.

5. How many routine samples are required in June?____________[number]

Situation C: Magnificent Park Water System Routine and Repeat Monitoring, Assessments, Violations

Situation C Description

So far we know that on:

- 4/11/16, the PWS took its routine sample and it was TC+/EC+.
- 4/13/16, the system took its 3 repeat samples and all of the samples were TC-.
- 4/13/16, the system took a raw water GWR sample and the sample was TC-.
- 5/9/16, Magnificent Park took its routine sample and it was TC+/EC-.
- 5/11/16, the system took its 3 repeat samples: two samples were TC- and one was TC+/EC-.
- 6/11/16, Level 1 assessment was completed but the corrective actions are still due. The PWS received approval to complete one of the corrective actions by November 9, 2016.

Magnificent Park did routine sampling on 6/16/2016 and on 07/19/2016 and the samples were TC-. Magnificent Park takes total coliform samples in August 2016 and received the following lab reports:

• BONUS: Magnificent Park's GWR triggered source water sample on 8/11/16 was TC+\EC+.



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Analysis Report

Name: Magnificent Park Water System

6 Main Street

Apple Valley, XX 00102

PWSID: XXC1234567

Sample Type: Drinking Water

Sampler: AVWD
Method: Colilert-18®

Parameter: Enumeration of *E. coli* and coliform

bacteria

Sample Date	Sample ID	Sample Type	Sample Site	Results	Rpt Sent
08/08/16	0641600-1	Routine	Site G	TC + /EC-	8/10/2016



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Analysis Report

Name: Magnificent Park Water System

6 Main Street

Apple Valley, XX 00102

PWSID: XXC1234567

Sample Type: Drinking Water

Sampler: AVWD

Method: Colilert-18®

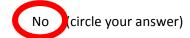
Parameter: Enumeration of *E. coli* and coliform

bacteria

Sample Date	Sample ID	Sample Type	Sample Site	Results	Rpt Sent
08/11/16	0641610-1	Repeat	Site G	TC-/EC-	8/12/16
8/11/16	0641611-1	Repeat	Site G Upstream	TC-/EC-	8/12/16

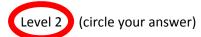
- Based on the routine TC+/EC- result received on 8/08/16, the PWS must take
 [number] repeat samples by 8/11/2016 [month/day/year].
- 2. Based on the RTRC sample results received for August 2016, did the PWS incur an *E. coli* MCL violations?

Yes



3. Did the PWS trigger a Level 1 or Level 2 assessment?

Level 1



A Level 2 Assessment because this is the second Level 1 trigger that has occurred within 12 months. The PWS had its first Level 1 trigger in May 2016 when it had at least two TC+ sample results. The PWS had a second Level 1 trigger, which now becomes a Level 2 assessment, when it failed to take 3 repeat samples in August 2016.

4. Who can do the assessment?

Only LDHH State staff can do the Level 2 assessment.

- 5. When is the assessment and corrective actions required to be completed?
 9/11/2016 [month/day/year]
- 6. Because of the 8/11/2016 EC+ triggered GWR source water sample, what does the PWS need to do next to comply with the GWR?

Take well offline or issue a Boil water advisory if the well stays in use. And take 5 additional GWR samples at the well (raw water sample tap before treatment).